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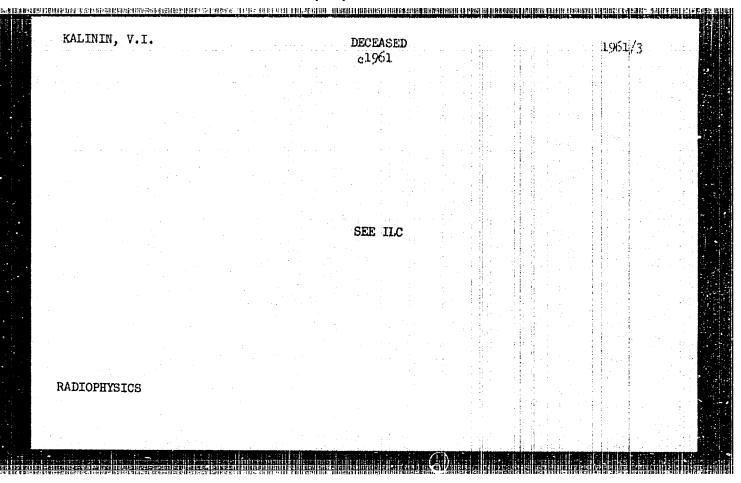
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		(PoultryPhysiology)		(44444		

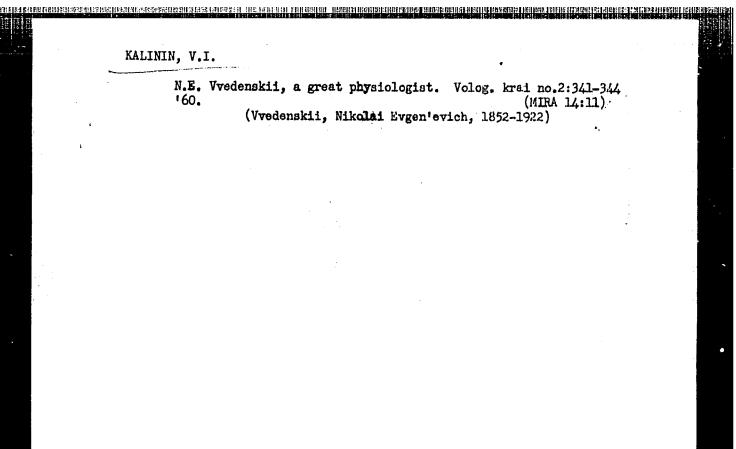
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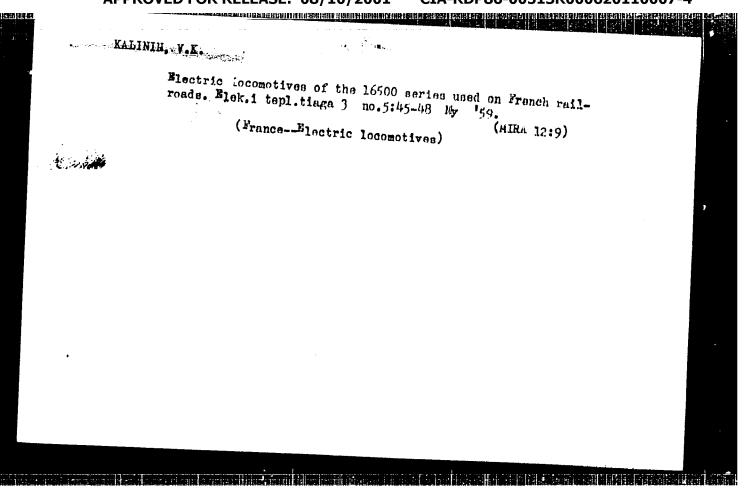
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KALININ, V.K., kand. tekhn. nauk; MIRONOV, K.A., insh.; LiBVIN, B.M., inzh.; LIBMAN, G.M., inzh.; YERSHOV, Ye.F., inzh.; PANCHENKO, P.M., inzh.; BOLYCHEV, N.G., mashinist elektrovoza; ZOLOTAREV, V.N., mashinist instruktor; YANIN, I.A., inzh.; BOVE, Ye.G., kand. tekhn. nauk, red.; USENKO, L.A., tekhn. red.

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(MIRA 17:2)

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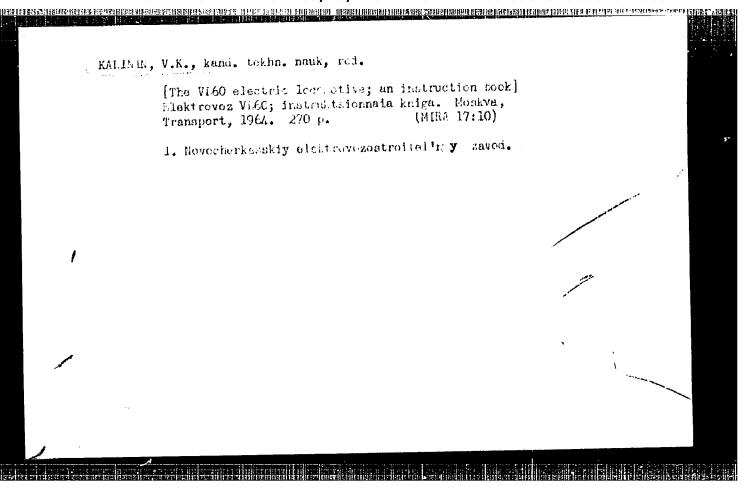
MIKHEYEV, V.P.; AGEYEVA, I.A.; SDv.ZHKOV, N.S.; VETROV, N.I., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; MURAV'YEVA, N.D., tekhn. red.

[Decreasing the wear of contact wires; work practice of the staff of the West Siberian railroad] Umen'shenie iznosa kontaktnykh provodov; cpyt raboty kollektiva Zapadno-Sibirskoi dorogi. Moskva, Izd-vo "Transport," 1964. 89 p. (MIRA 17:3)

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inzh., retsenzent; ROGOVA, Ye.N., inzh., retsenzent;
KRASKOVSKAYA, S.N., inzh., retsenzent; DUBROVSKIY, Z.M.,
inzh., retsenzent; KALIKHOVICH, V.N., inzh., retsenzent;
RAKOV, V.A., red.

[Rolling stock of electric railroads] Elektro-podvizhnoi sostav zheleznykh dorog. Izd.2., perer. Moskva, Transport, 1964. 498 p. (MIRA 18:1)

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KALININ, V.L.

Electric switch panel for drilling rigs. Razved. 1 okh.nedr
24 no.10:50-51 0 58. (MIRA 12:2)

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AUTHORS:

Dunayev, F.N. and Kalinin, V.M.

TITLE:

On the longitudinal and transverse magnetostriction

of electrical steel

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.4, 1961,

619-620

TEXT: Earlier investigations by V. V. Druzhinin et al. (Ref.1: FMM, 1957, 5, 164; Ref.2: Zavodskaya laboratoriya, 1954, 2, 207) on iron-silicon alloys containing 0.4 to 7.0% Si, using wire strain gauges which were not glued onto the specimens, showed that in most cases the transverse magnetostriction as well as the longitudinal magnetostriction had positive values. The authors of this paper carried out experiments with glued on strain gauges which yielded data differing from those obtained by Druzhinin et al. The measurements were made on 250 x 30 mm² strips and 30-45 mm diameter discs of various steels. To eliminate the influence of possible bending on the measured results, the strain gauges forming the arms of the measuring bridge were glued on in pairs to both sides of the specimen. The

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On the longitudinal and ...

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sensitivity of the metering arrangement was about 10^{-7} mm⁻¹. Magnetization was by means of a solenoid. The main results on the longitudinal and transverse magnetostriction are entered in a table, where λ_{\max} is the maximum magnetostriction on the $\lambda(H)$ curve and λ is the magnetostriction in a magnetic field of 1200 Oe. It can be seen from the table that in the case of the hot-rolled steels $\exists 11$ (E11), $\exists 31$ (E31), $\exists 42$ (E42) and the cold-rolled steel $\exists 310$ (E310) the longitudinal magnetostriction λ_{\parallel} and the transverse magnetostriction λ_{\parallel} have opposite signs. One of the possible causes why Druzhinin obtained positive values for λ_{\parallel} is interaction of the strain gauge wire, along which there is a flow of d.c. current, with the magnetic fields of the electromagnet and the specimen. There are 1 table and 3 references: all Soviet.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni

A. M. Gor'kogo (Ural State University imeni

A. M. Gor'kiy)

SUBMITTED:

March 24, 1961

Card 2/3/2

S/126/61/012/006/019/023 E073/E535

AUTHORS: Dunayev, F.N. and Kalinin, V.M.

TITLE: On the effect of shape in linear magnetostriction

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.6, 1961,

915-917

TEXT: H. E. Stauss (Ref.5: J.Appl.Phys., 1959, 30, 698) has shown that the shape effect for an ellipsoid in a longitudinal uniform field represents deformation by compression and he proposed a formula for calculating the shape effect when magnetizing the specimen above saturation. Stauss has also shown that in the general case the shape effect includes not only the change of the magnitude of deformation of the specimen as a result of interaction of the magnetic poles but also the change in deformation caused by interaction of these poles with the magnetizing apparatus. To determine the effect of shape, the authors used 5 x 5 mm rods, 100 mm long and additional 200 mm rods of the same cross-section and the same material. Specimens of iron with silicon contents of 1.05 and 4.10% were chosen to obtain a low magnetostriction and a sufficiently high saturation Card 1/3

On the effect of shape in ...

S/126/61/012/006/019/023 E073/E535

magnetization; this enabled easier detection of the influence of After machining, the specimens were subjected to high temperature annealing in vacuo at 1100°C for two hours. The linear magnetostriction and the magnetization were measured initially on the 100 mm long specimen on its own and then on this same specimen to which was added the 200 mm long specimen. The magnetostriction was measured by glued-on strain gauges, the magnetization was measured ballistically using a differential coil. The solenoid used had a uniform field for a length of 580 mm and a maximum field strength of 1200 Oe. The results, which are plotted in the paper, indicate that for the specimen containing 1.05% Si, for which the magnetostriction changes from positive to negative, as well as for the specimen containing 4.1% Si, for which the magnetostriction has only positive values: the difference in the magnetostriction values ΔA_{\parallel} of the short specimen and the specimen with the longer one added is negative for the same value of magnetization. The dependence of $\Delta A_{||}$ on the square of the magnetization I^2 is approximately linear. However, additional investigations are required on this point, since the experimental Card 2/3

On the effect of shape in ,...

S/126/61/012/006/019/023 E073/E535

values are such that they would allow plotting a curve which is slightly convex viewed from the I² axis. There are 2 figures and 6 references: 1 Soviet-bloc and 5 non-Soviet-bloc. The English-language references read as follows: Ref.2: Birss R. Adv.Phys., 1959, 8, No.31, 252; Ref.3: Gersdorf R.J. J.Appl.Phys., 1959, 30, 2018; Ref.4: Gersdorf R. Physica, 1960, 26, 553; Ref.5: Quoted in text.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo

(Ural State University imeni A. M. Gor'kiy)

SUBMITTED: May 10, 1961

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Card 3/3

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DUNAYEV, F.N.; KALININ, V.M.

Longitudinal and transverse effect of the shape of ellipsoid specimens of iron-silicon alloys. Fiz.met.i metalloyed. 13 no.1:153-154 Ja '62. (MIRA 15:3)

1. Ural'skiy gosudarstvennyy universitet imeni Gor'kogo. (Iron-silicon alloys-Testing)

DUNAYEV, F.N.; KALININ, V.M.

Effect of the longitudinal and transverse shape on the magnetostriction of iron ellipsoids. Fiz. met. i metalloved. 14 no.3: 462-464 S 162. (MIRA 15:9)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo. (Magnetostriction)

DUNAYEV, F.N.; KALININ, V.M.; SERIKOV, V.V.

Anisotropy of volumetric magnetostriction. Fix.met.i metalloved. 14 no.5:781-783 N '62. (MIRA 15:12)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo. (Magnetostriction)

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S/126/63/015/008/002/035 E039/E420

AUTHORS: Dunayev, F.N., Kalinin, V.M.

TITLE: Volume magnetostriction of iron and iron-silicon alloys

PERIODICAL: Fizika metallov i metallovedeniye, v.15, no.2, 1963, 170-174

TEXT: An experimental investigation of the dependence of volume magnotostriction on composition for Si content from 0 to 6.79% by weight. Experimental data on the magnitude, sign and characteristics of the change in volume magnetostriction provide valuable information on magnetic and exchange interactions in ferromagnetics. Samples are prepared in the form of ellipsoids of revolution with major axes of about 150 mm and minor axes of about 5 or 10 mm, giving volumes of about 2300 and 7700 mm3 respectively. All samples were heated at 900°C in a vacuum for 3 hours and then cooled at 100°C per hour. The volume magnetostriction was measured by a dilatometric method using distiled water as the dilatometer fluid. Fields of up to \$000 00 were provided by means of a solenoid and errors of measurement were It is shown that the volume magnetostruction w depends linearly on the field H for Fe and Fe-Si alloys over Card 1/2

5/126/63/015/002/002/033 Volume magnetostriction ... E039/E420 range 600 to 5700 Oe. Over the investigated range the value of $\partial \omega/\partial H$ increases with increase in Si content from 6.4 x 10^{-10} 00 The for pure iron, to 13 x 10^{-10} 00 The alloy with 6.79% Si. for pure iron, to 13 x $10^{-100e-1}$ for the alloy with 6.79% Si. isotropic constant for true magnetostriction is calculated and varies from 2.13 x 10^{-10} for pure iron to 4.33 x 10^{-10} for the 6.79% Si alloy. The dependence of Ow/OH on Si content is due to the increase in the critical exchange integral. Over the investigated range the points for the Fe-Si alloys are displaced to the left of the Bethe-Slater curve. There are 2 figures and l table. ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo (Ural State University imeni A.M.Gor'kdy) SUBMITTED: June 30, 1962

DUNAYEV, F.N.; KALININ, V.M.; DRUZHININ, V.V.

Longitudinal and transverse magnetostriction of iron-silicon steels. Fiz. met. i metalloved. 15 no.5:652-657 My '63.

(MIRA 16*8)

1. Ural'sky gosudarstvennyy universitet im. Gor'kogo i Verkh-Isetsky metallurgicheskiy zavod.

(Iron-silicon alloys---Magnetic properties)

ADAMESKU, R.A.; KALININ, V.M.; KUDRYAVTSEV, I.P.

Effect of annealing in a magnetic field on the magnetic and crystalline structure of ferrosilicon. Izv. vys., ucheb. zav.; fiz. no.5:69-74 '64. (MIRA 17:11)

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1. Ural'skiy politekhnicheskiy institut imeni Kirova i Ural'skiy gosudarstvennyy universitet imeni Gor'kogo.

L 6291L-65 EWT(m)/EWF(w)/EWA(d)/EWP(t)/EWP(m)/EWP(b) JD/JW

ACCESSION NR: AR5019140

UR/0137/65/000/007/1026/1026

SOURCE: Ref. zh. Metallurgiya, Abs. 71169

AUTHOR: Dunayev, F. N.; Kalinin, V. M.

TITLE: Longitudinal / transverse, and volumetric effect of the shape of ferromagnetic materials

CITED SOURCE: Sb. Tiz. magnitn, yavjeniy. Sverdlovsk, 1:64, 51-76

TOPIC TAGS: ferromagnetic material, polycrystal, compressive stress, tensile stress, external magnetic field, homogeneous magnetic field

TRANSLATION: The longitudinal effect of the shape ΔA_{11} of polycopstalline ferromagnetic materials in a homogeneous external magnetic field consists of compression strain, and not of dilatational strain. For determination of the magnitude of the spontaneous longitudinal magnetostriction in samples with a sufficiently large demagnetization factor, it is necessary not to calculate, but to add the value of ΔA_{11} to the measured magnitude of ΔA_{12} . The transverse effect of

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		ue of $\lambda_{1.8}$, it is necessary				
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	_	hanges its sign with a char	nge in the dista	nce betwe		
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JD/HII EWT(1)/EWT(m)/EWA(d)/EWP(t)/EWP(k) IJP(c) L 23679-66 SOURCE CODE: UR/O(158/65/000/009/E134/E135 ACC NR: AR6005239 SOURCE: Ref. zh. Fizika, Abs. 9E1111 AUTHORS: Dunayev, F. N.; Kalinin, V. M.; Maysinovich, V. I. TITLE: Anisotropy of longitudinal, transverse, and volume shape effect REF SOURCE: Sb. Fiz. magnitn. yavleniy. Sverdlovsk, 1964, 77-85 TOPIC TAGS: magnetostriction, steel, material deformation, magnetic anisotropy/ E310 steel TRANSIATION: With the gid of the method of strain-gauge pickups, the authors investigated the longitudinal and transverse magnetostriction \ and \(\lambda\right)\) of single crystals of cold-rolled steel E310. It is established that with decreasing diameter of a sample prepared in the form of a disc whose surface coincides with the (110) plane, i.e., with increasing demagnetizing factor, the magnetostriction & in the [100] direction, which has a positive sign, decreases for each value of the field H, i.e., the disc experiences compression deformation, due to the shape effect, in the direction of the field H. However, the variation of λ_{\parallel} can be also influenced by the change in the magnetic structure. The magnetostriction λ_{\perp} in the [100] direction has a negative sign and it also decreases in absolute magnitude with decreasing diameter. In the [110] direction, the value of λ_{\parallel} is also positive and also decreases with decreasing diameter, whereas λ_{\parallel} , which has a negative sign, increases in absolute magnitude. In the [111] direction, λ_{\parallel} and λ_{\perp} are negative and decrease in absolute magnitude with Card 1/2

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	ACC NR: AR6005240 SOURCE CODE: UR/0058/65/000/009/E135/E135
	AUTHORS: Dunayev, F. N.; Kalinin, V. M.; Maysinovich, V. I. 55
	TITLE: Crystalline effect and exchange magnetostriction of the paraprocess in iron-silicon alloys
	SOURCE: Ref. zh. Fizika, Abs. 9E1112
	REF. SOURCE: Sb. Fiz. magnitn. yavleniy. Sverdlovsk, 1964, 86-99
	TOPIC TAGS: paramagnetism, magnetostriction, iron alloy, silicon containing alloy, magnetic anisotropy, heat treatment, steel/E310
	steel TRANSLATION: The authors investigated the volume magnetostriction TRANSLATION of the crystalline effect (w _c) and of the paraprocess in the region of the crystalline effect (w _c) and of the paraprocess
	in the region of the crystalline effect (ac) (a) of polycrystalline samples of cold rolled E510 steel with tex-
	(wp) of polycrystalline samples had the form of ellipture (110) [001]. The polycrystalline samples had the form of ellipture (110) [001].
	soids of revolution and places motific field. All the samples were
	netization in a homogeneous magnetic field annealed in vacuum of 10 ⁻⁴ mm Hg at 900C for four hours with subse-
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ACC NR: AR6005240 The value of ω was determined quent cooling at a rate of 500/hr. by a dilatometric method. The sensitivity of the installation in measurement of ellipsoidal samples was 5×10^{-8} , and that of the plates was 1.8×10^{-8} . The magnetization was carried out in a solenoid, which made it possible to obtain a magnetic field up to 6000 Oe, uniform within 5% in a section 150 mm long. The measurement error was 2 -- 5%. It is shown that $\frac{\partial \omega}{\partial t} = \frac{\partial \omega}{\partial t} = \frac{\partial \omega}{\partial t}$ content from 6.4 x 10^{-10} for Fe to 13 x 10^{-10} Ce⁻¹ for an alloy containing 6.79% Si. This is brought about by the fact that the containing 6.79% Si. This is brought about by the fact that the slope of the effective exchange integral essentially increases, apparently because of the decrease in the lattice parameter with inω_c of cold rolled sceel was investigated. The creasing Si content. largest value of $\omega_{_{\mbox{\scriptsize C}}}$ was observed in the [111] direction, and the Measurement of ω_c of single crystals smallest in the [100] direction. make it possible to determine the value of $(K_1)^{-1}\partial K_1/\partial P$ which characterizes the change in the magnetic anisotropic constant

Card 2/3

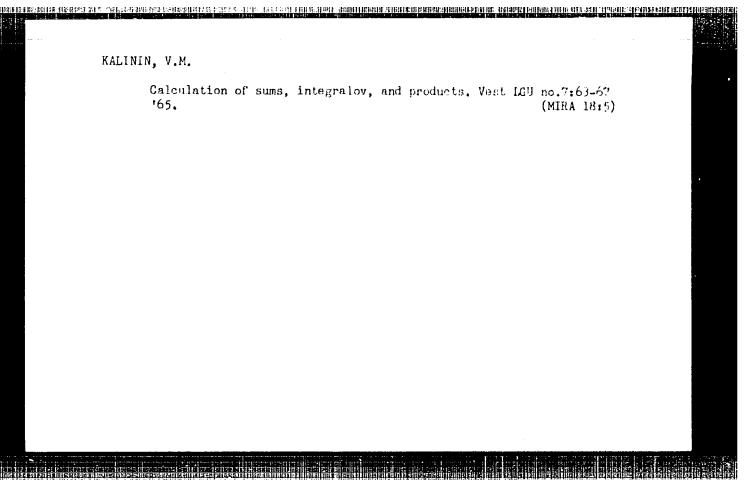
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	during hyd	irostat	ic co	mpression.	For ar	alloy	with	3.2% S	1,		
]	$(1/K_1)\partial K_1/$	′∂P ≈ -	70 x	10^{-7} atm^{-1}	. An a	nisotr	opy of	· ω is	obse	rved.	
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DUNAYEV, F.N.; KALININ, V.M.; MAYSINOVICH, V.1.

Anisotropy of the crystal effect of the volume magnetostruction in the spin paramagnetism of iron-silicon alloys. Fiz. met. i metalloved. 18 no.21318-320 Ag 164.

(MIRA 18:8)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Ger'kogo.



DUNAYEV, F.N.; KALININ, Y.M.; KRYUKOV, I.P.; MAYSINOVICH, V.T.

Magnetization saturation of the Co-Pt alloy. Fiz. met. i
metalloved. 20 no.3:460-462 5 '65.

(MIRA 18:11)

l. Ural'skiy gosudarstvennyy universitet imeni A.M.Cor'kogo
i Institut fiziki metallov AN SSSR.

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EVT(m)/EVP(t)/ETI IJP(c) JD/HW/JO L 46286-66 ACC NR: AP5025335 SOURCE CODE: UR/0126/65/020/003/0460/0462 AUTHOR: Dunayev, F. N.; Kalinin, Y. M.; Kryukov, I. P.; Maysinovich, V. I. ORG: Ural State University im. A. M. Gor'kly (Ural'skiy gosuniversitet); Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR) TITLE: The magnetic saturation intensity of Co-Pt alloy SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 460-462 TOPIC TAGS: cobalt alloy, platinum alloy, magnetic saturation . Temperature. DEPENDENCE ABSTRACT: The thermal dependence of the specific magnetic saturation intensity of a Corpt alloy of nearly equiatomic composition was determined from liquid nitrogen temperature to 700K, in order to study the nature of the high coercivity of such magnets. (Spherical samples of 3.8 mm diam were prepared. Their specific magnetic saturation intensity was measured after 30 min heating at 1000C, cooling at a rate of 1.3C/sec, and annealing 3, 6, 9, or 13 hr at 600C using fields up to 80kOc for magnetization. The specific magnetic saturation intensity increased with field strength and decreased with annealing time and with the temperature at magnetization, reaching a maximum of 43.5 G·cm³·g⁻¹ for tempered and not annealed samples, The results indicate that magnetization of the tetragonal and well defined phase, formed during

UDC: 538.114:245

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THE RESIDENCE OF THE PROPERTY 1JP(c) mar(m)/mar(t)/mri 1. 085.7-67 SOURCE CODE: UR/0058/66/000/007/E110/E110 ACC NR AROU33793 31 Mishin, D. D.; Novikov, V. F.; Kalinin, V. M. AUTHOR: TITLE: The coercive force of plastically deformed ferrosilicon crystals SOURCE: Ref. zh. Fizika, Abs. 7E830 REF SOURCE: Uch. zap. Ural'skogo un-ta. Ser. fiz., vyp. 1. 1965, 63-68 TOPIC TAGS: iron, silicon single crystal, plastic deformation, ferrosilicon, anistropy ABSTRACT: The anisotropy of the coercive force Hc and the magnetostriction saturation λ of Fe-Si single crystals deformed by stretching in the direction [110] (110) was investigated. Research was conducted on disk-shaped samples. H measurements were made in three basic crystallogra hic directions on an astatic magnetometer with a 700-erg magnetizing field. Tensometric measurements were made of λ_s in fields of up to 1900 erg. Measurements showed that plastic deformation of Fe-Si single crystals in the direction [110] (110) causes a quantitative change in the H_c value and a qualitative change in the H_c anisotropy. The inequality of H_c $<H_c$ is fulfilled in the 0--92% ,>H_c[110] The inequality of H_C[001] is fulfilled for range. | Card 1/2

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9.2-23% deformation. When deformation exceeds 23%, the first correlation enters into effect. From the results of measurements, it follows that the process of change of H _c depends essentially on the direction of deformation. P. Khramov. [Translation of abstract	3	
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SOURCE CODE: UR/0020/66/166/003/0530/0532 IJP(c) EWT(d)/T Kalinin, V. M. AUTHOR: ORG: none TITLE: Asymptotic expansions for frequently encountered probability distributions SOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 530-532 TOPIC TAGS: asymptotic expansion, probability, distribution function, normal distribution, polynomial ABSTRACT: The problem of refining the limit theorems on the convergence of binomial and polynomial distributions to normal and Poisson, Student distributions to normal, etc., is formulated. Let $\lambda_1, \dots, \lambda_{k-1}$ be fixed positive numbers; $m_1, \dots, m_k + 1$ fixed nonnegative integers; $\lambda = \lambda_1 + \cdots + \lambda_{k-1}, m = m_1 + \cdots + m_{k-1}, m = m_1 + \cdots + m$ n - m. Then for any $k = 2, 3, \ldots$ the asymptotic expansion $\frac{n!}{m_1! \dots m_k!} (\lambda_1/n)^{m_1} \dots (\lambda_{k-1}/n)^{m_{k-1}} (1 - \lambda/n)^{m_k} =$ $\left(\prod_{i=1}^{m-1} \frac{\lambda_i^{m_i} e^{-\lambda_i}}{m_i!}\right) \left[1 + \sum_{i=1}^{\infty} \frac{M_j(m_i \lambda)}{h^j}\right],$ Card 1/3

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is valid when n → ∞	. Let λ be a fixed positive expansion	e number, and	im be a rrx	30 H0VIII-0 2-0	
tive integer. The a	$\sum_{n=0}^{\infty} C_n^i \left(\frac{\lambda}{n}\right)^i \left(1 - \frac{\lambda}{n}\right)^{n-i} = F(n)^{n-i}$	$m)+\sum_{i=1}^{\infty}\frac{V_{j}(m_{i},i)}{n^{i}}$	<u>v</u>		
,	(.ind	ite interval	$a \leq y \leq b$:		
is valid when n → α	$\frac{\lambda^m e^{-\lambda}}{m!} = \frac{e^{-V^2/2}}{\sqrt{2\pi \lambda}} \exp \left[\sum_{i=1}^{\infty} \frac{1}{i!} \right]$	7,(y) VX)			
Uniformly for all m	for which y are within ar	oitrary finit	e intervals	a _i ≤ y _i ≤	
b_i , when $n \to \infty$	$p_1^{m_1} \dots p_k^{m_k} = \frac{\exp\left[-\frac{1}{2} \sum_{i=1}^k q_i v_i^2\right]}{(V^{2\pi n})^{k-1} V_{p_1 \dots p_k}}$	$\exp\left[\sum_{j=1}^{\infty}\sum_{k=1}^{k}\frac{a}{(1)^{r_{j}}}\right]$	H J		
For k = 2,	$C_n^m p^m q^{n-m} = \frac{e^{-v^2/2}}{\sqrt{2\pi n pq}} \exp \left[$	$\sum_{j=1}^{\infty} \frac{C_j(y)}{(\sqrt{npq})^j} $ with			
	$= \frac{e^{-y/h}}{\sqrt{2\pi npq}} \left[1 + \sum_{j=1}^{\infty} -\frac{1}{2^{j+1}} \right]$	$\left[\frac{T_{j}(y)}{\sqrt{npq}}\right]$.			
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ACC NR: AP6004383

When $n \to \infty$, at an arbitrary fixed θ uniformly relative to a $x_1 x_1 x_2 x_2 x_3$

$$\sum_{i=p+1}^{p+m} C_n^i p^i q^{n-i} = \int_{V_i}^{V_i} \varphi(y) \, dy + \sum_{j=1}^{\infty} \frac{Q_j}{(\sqrt{npq})^j} :$$

Uniformly relative to y in any finite interval a $\angle y \le b$

to y in any finite interval
$$\frac{\Gamma((n+1)/2)}{V \sin \Gamma(n/2)} (1 + y^2/n)^{\frac{n+1}{2}} = \varphi(y) \exp \left[\sum_{j=1}^{\infty} \frac{K_j(y)}{n^j} \right] = \varphi(y) \left[1 + \sum_{j=1}^{\infty} \frac{P_j(y)}{n^j} \right],$$

where

$$K_{j}(y) = \frac{(-1)^{j}}{2} \left(\frac{y^{2j}}{i} - \frac{y^{2j+2}}{j+1} \right) - \frac{2^{j+1} - 1}{i(j+1)} B_{j+1},$$

$$P_{j}(y) = \sum_{i} \frac{K_{1}^{v_{1}}(y) \dots K_{j}^{v_{j}}(y)}{v_{1}! \dots v_{j}!}$$

is an even polynomial of degree 4j. This paper was presented by academician Yu. V.

Linnik on 10 May 1965. Orig. art. has: 16 formulas.

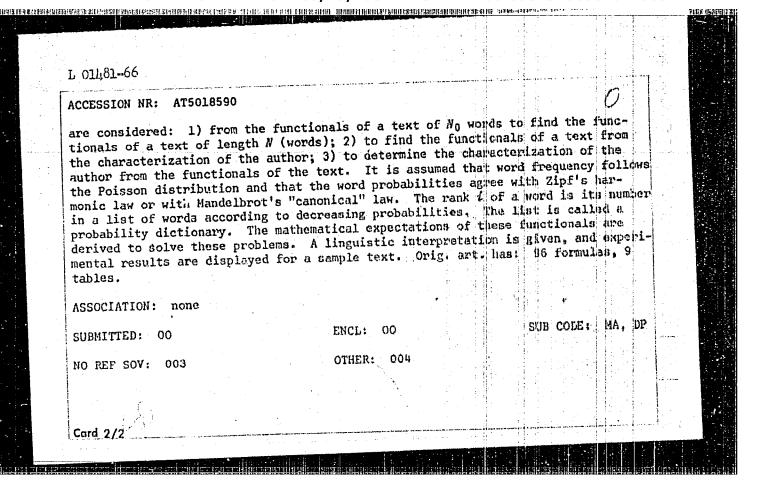
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APPROVED FOR RELEASE: 08/10/2001

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	i. 011481-66 ETT(d)/T IJP(c) JXT(cz)
	ACCESSION NR: AT5018590 UR/2517/65/079/000/0182/0197
	AUTHOR: Kalinin. V. M. 44,65
	TITLE: Functionals connected with the Poisson distribution and the statistical structure of a text
	SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 79, 1965. Raboty po matematicheskoy statistike i teorii veroyatnostey (Papers on mathematical statistics and the theory of probability), 182-197
	TOPIC TAGS: statistical analysis, probability theory, language, Poisson distribution
	ABSTRACT: It is assumed that a text (speech sample) is a discrete, stationary, random process. A text of N words is characterized by the following functionals: n(N) is the number of different words, n(N) is the number of different words, each of each of which is used m times; r _m (N) is the number of different words, each of
	which is used more frequently than m times. The author is characterized by the col- which is used more frequently than m times. The author is characterized by the col- lection of word-usage probabilities p. (i=1,,L), where L is the capacity of the author's active vocabulary for the given text. The following three problems
	Card 1/2



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5/024/60/000/006/010/015 E031/E413

16.9200 (1031,1121,1137)

Kalinin, V.N. and Makar'yev, B.M. (Leningrad)

AUTHORS: TITLE:

The Investigation of Free Oscillations in Non-Linear

Automatic Control Systems Using Logarithmic Frequency

Characteristics

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, No.6, pp.157-161

The elements of the system may be linear (L), non-linear (N) or complicated non-linear elements (K). The investigation is TEXT: made considering the characteristics as two families of either the amplitude or the frequency for fixed values of the other parameter, Consider first auto-oscillations in a system formed by short-On the logarithmic scale, the transfer function splits into two parts and these two equations for the parameters of the auto-oscillations are solved graphically. stability of the auto-oscillations is determined using the Nyquist The second case considered is that of a system of the This case is of Again a graphical approach is adopted. criterion. interest because it is equivalent to a system comprising a linear The third and last case is that of a and a non-linear part. Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620110007-4"

88343 \$/024/60/000/006/010/015 E031/E413

The Investigation of Free Oscillations in Non-Linear Automatic Control Systems Using Logarithmic Frequency Characteristics

system of the form NL. For convenience the non-linear elements are divided into those with and those without hysteresis loops in their characteristics. The necessary conditions for the occurrence of auto-oscillations is the existence of general points on the curves of the logarithmically equivalent admittance and characteristic functions of the system. If these general points do not exist, this can be regarded as a sufficient condition for the absence of auto-oscillations. Systems with non-linear elements of the first class are more inclined to self-excitation than systems with elements of the second class. There are 4 figures and 2 Soviet references.

SUBMITTED: May 24, 1960

Card 2/2

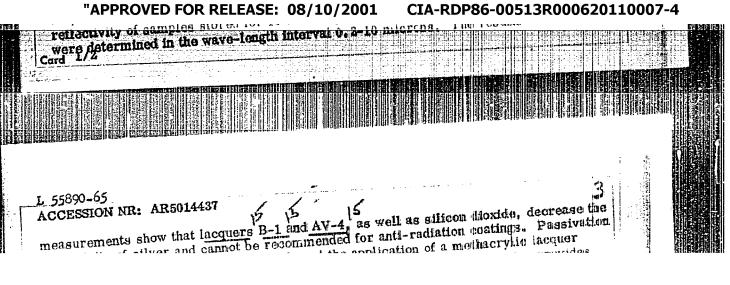
AVDEYEV, A.I.; KALININ, V.N.; FRIDZON, M.V. Protection of thermoreceivers from the thermal action of solar radiation when measuring temperature at great heights. Trudy (MIRA 16:10) TSAO no.41:86-90 '62.

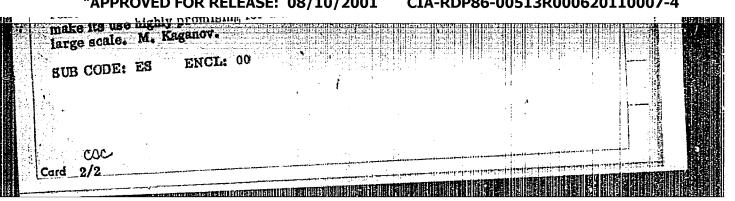
DATE HARREST CHRISTOFIC STRUCK (TO STEEL CONTROLLED BY CHRISTOFIC STRUCK ENT(d)/BDS--AFFTC/APGC/ASD--Pg-L/Pk-L/P1-L/Pd-L/Pd-L-BC/IJP(C) T. 10485-63 s/0020/63/150/001/0021/0022 AP3000286 ACCESSION NR: 14 AUTHOR: Kalinin, V. N. (Moscow) TITLE: The existence of an absolute minimum in a problem of the theory of optimal processes SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 21-22 TOPIC TAGS: optimal process, quasi-regularity, absolute minimum, functional quasi-regularity ABSTRACT: Definitions of the class U of allowable controls u(t), of the class Δ of operations A(u, x) determining the controlled process, and of the resolvant of an operation are given, and the problem of the optimal controll is formulated. The following functional is assumed: $I(u) = \int f(x, u, t) dt,$ where f(x,u,t) is a function for which the integral (1) exists (in the sense of Lebesgue) and is bounded and unique for any allowable control function usu and

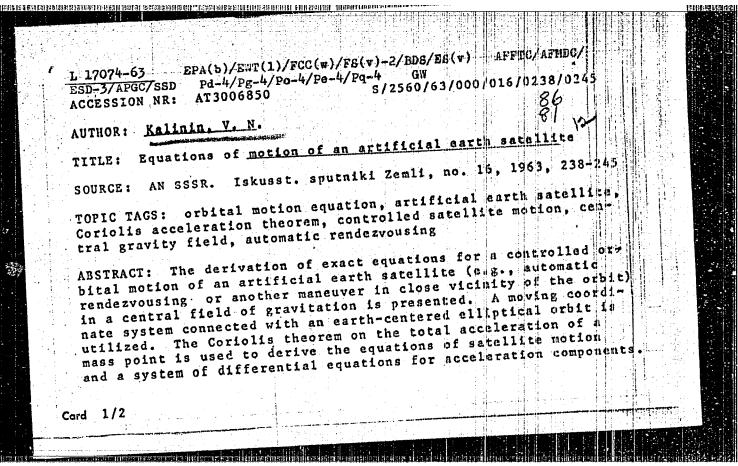
AP3000286 ACCESSION NR: for corresponding controlled processes x. It is necessary to establish conditions under which there exists in the class of allowable functions u(t) a control function u*(t) (optimal control) such that the absolute minimum of the function I(u) is ensured. The definition of the quasi-regularity of the function I(u) in the class U is presented in the form of certain constraints upon the integrand f(x,u,t), and optimality conditions are expressed in the following theorem: If the operation A(x,t) belongs to the set Δ_0 , where Δ_0 is the set of operations with a strengthened continuous resolvent, and the functional I(u) is quasi-regular in U, then a control u*(t) exists in U such that the absolute minimum of the functional I(u) is ensured. The article was presented by Academickan L. S. Pontryagin, 23 November 1962. Orig. art. has: 3 formulas. ASSOCIATION: none ENGL: DATE ACQ: 10Jun63 23Nov62 SUBMITTED: 001 OTHER: NO REF SOV: SUB CODE: 194

EWT(1)/EWT(m)/FCC/EMG(v)/EEC_4/EWF())/EEC(+)/EWA(+) Pe-b/Pq-1/Fae-2/Peb/Pi-4 RM/GW UR/0169/65/000/005/B010/B010 ACCESSION NR: AR5014437 551.506 SOURCE: Ref. zh. Geofizika, Abs. 6882 AUTHOR: Avdeyev, A.I.; Fridzon, M.B.; Kalinin, V.N. TITLE: The protection of temperature sensors against radiation CITED SOURCE: Sb. 150 let Meteorol. observ. Kazansk. un-ta. Kazansk. un-ta. TOPIC TAGS: meteorological instrument, temperature sensor, stratosphere, anti-1963, 200-212 radiation coating, radiation error, silver passivation, silver reflectivity, lacquer coating, aluminum reflectivity TRANSLATION: Silver applied to a polished base has the best rellienting properties of all the coverings used for the protection of stratospheric temperature sensors against - to unatable under the influence of atmospheric factors. The i miliactivity of silver by

CIA-RDP86-00513R000620110007-4 "APPROVED FOR RELEASE: 08/10/2001







L 17074-63 ACCESSION NR: AT3006850 An approximate integration of these equations by applying the small-parameter method is briefly discussed. "The author exsmall-parameter method is briefly discussed. the author expresses his profound gratitude to F. M. Kilin, B. T. Solomatnicov, A. V. Chetkov, Ye. P. Grigor vey, and Yu. Ya. Dmitriyev for valuable remarks made during the discussion of the article." Origart. has: 2 figures and 46 formulas. ASSOCIATION: none ENCL: 08Aug63 DATE ACQ: SUBMITTED: 15Ju162 OTHER: 001 NO REF SOV: SIJB CODE: AS 2/2

L 16049-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pu-4/Pk-4/P1-4 IJE(c) WW/BC ACCESSION NR: AP4048822

AUTHOR: Kalinin, V. N. (Leningrad)

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TITLE: Theory of the approximate synthesis of an optimum control

SOURCE: AN SSSR. Izv. Tekhnicheskaya kibernetika, no. 5, 1964, 39-44

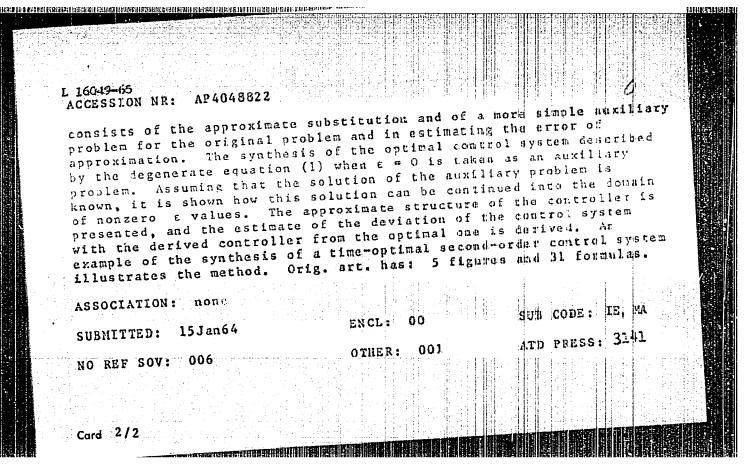
TOPIC TAGS: optimum control synthesis, approximate synthesis, linear control system, time optimum control

ABSTRACT: An approximate method is presented for the synthesis of the time optimal control system described by the linear differential equation of the form

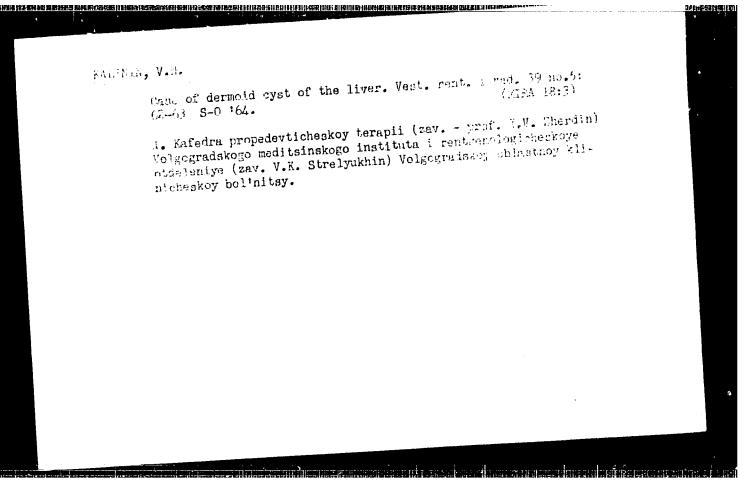
 $\dot{x} = a(e, t)x + bu, \tag{1}$

where x is an n-vector of the phase state of the system, u is an r-recontrol vector, $a(\varepsilon,t)$ is an n x n matrix, b is a donstant n x r matrix, and ε is a small parameter. The assence of the method

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L 41040-65 EVT (d)/EPF(n)-2/EWP(1) Pa-4/Pa-4/Pg-4/Pu-4/Pk-4/P1-4 IJP(a) htt/ic S/0103/65/026/002/0365/0369
ACCESSION NR: AF 300000 to the second
AUTHOR: Kalinin, V. N. (Leningrad) TITLE: Generalized optimality criteria in optimal-control problems
TORIC TAGS: optimal control, optimality, dates
ABSTRACT: Optimality criteria are considered functionals in a nonclassic
variant of the optimal-control problem. The technique of the for this functional:
based on consideration of all large $f(\xi_1, \dots, \xi_m)$. Where $f(\xi_1, \dots, \xi_m)$ and $f(\xi_1, \dots, \xi_m)$.
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41040-65 CCESSION NR: AP5006287 and F is the defined function.		rion confincted wit	h the above	
nd F is the defined function. unctional is called the "gene ind the optimum control for figures and 35 formulas.	ralized optimality crit a simplest second-ord	terion, "This theo er plant. Orig. a	ory is used at. has:	
ASSOCIATION: none		aum code:	TE JOP	
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NO REF SOV: 003	OTHER: 000			
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ZAKHARKIN, L.I.; KALININ, V.N.

Reaction of amines with barenes, Izv. AN SSSR. Ser. knim. no.3;
(MIRA 18:5)
579 '65.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ZAKHARKIN, L.I.; KALININ, V.N.

Sequence of substitution in electrophilic halogenation of barenes (carboranes). Izv. AN SSSR. Ser. khim. no.7:1311 '65. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

L 58347-65 ENT(m)/EPF(c)/EPR/ENP(j)/EWA(c) Pc-4/Pr-4/Ps-4 HPL NNF/JN/HN

ACCESSION NR: AP5018083

UR/2020/65/163/001/0110/01112

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AUTHOR: Zakharkin, L. I.; Kalinin, V. N.

TITLE: Conversion of barenes with amines into sales of dicarbaimde caborane

derivatives

SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 110-112

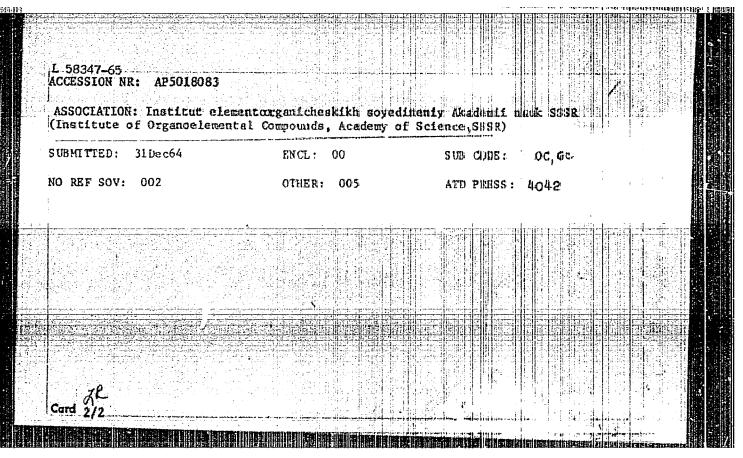
TOPIC TAGS: barene, borane, dicarbaundecaborane, organoboron

ABSTRACT: Contrary to the findings of some U.S. investigators, it was found that amines react with barenes to form salts of dicarbaundecaborane derivatives. The reaction involves cleavage of the barene ring. Thus, barene reacts with piperidine to form an adduct of piperidine with the piperidinum salt of dicarbaundecaborane:

Mono- and disubstituted barenes react similarly with piperidine in benzeue or hexage. Unsymmetrically substituted barenes yield only one anion; thus indicates that the first atom is abstructed from a definite position in the barene molecule, located symmetrically with respect to both carbon atoms. Orig. art. has: 2 figures and 1 dormula.

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Preparation of B-hydroxybarenes: by the action of nitric acid on barenes. Izv. AN SSCR. Ser. kham. no.91717 165.

I. Institut elementoorgenicheskikh soy-dimenty AN 1888.

EAKHARKIN, I.l., XALININ, V.N.

Cleavage of phenylneobarene by hydrazine into a phenylneodicurbundecarborane anion. Thur. ob. khim. 35 no.9,1691...
1692 5 '65.

(MIRA 18:10)

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EWT(m)/EPF(c)/EWP(j)/EWA(c) JW/RM ACCESSION NR: AP5025131 UR/0079/65/035/010/1882/1884 547,244 AUTHOR: Zakharkin, L. I.; Kalinin, V. N. TITLE: Synthesis of carboran- and nencarboran-amines SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1882-1884 TOPIC TAGS: carborane, neocarborane, amine ABSTRACT: Carboran- and neocarboran-amines with the NH2-group at one of the C atoms of the carborane- or neocarborane ring have been synthesized for the first time. The synthesis proceeds in two steps: treatment of the respective and chlorides with sodium azide and heating of the azides formed with concentrated sulfuric acid. Carboran- and neocarboran-amines are soluble in concentrated H₂BO₄. Carboranamines are weak bases due to the electron acceptor effect of the carborane ring and to steric ASSOCIATION: none SUBMITTED: 15Mar65 ENCL: NO REF SOV: 000 SUB CODE: Card 1/1 mg OTHER: 000 ATD PRESS

L 18569-66 EWT(m)/EAP(j)/T WW/JW/JWD/RM

ACC NR: AP6002702

SOURCE CODE: UR/0062/55/000/012/2205/2209

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AUTHORS: Zakharkin, L. I.; Kalinin, V. N.

ORG: Institute for Heteroorganic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Certain rearrangements of phenylborane and phenylneoborane

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2206-2209

TOPIC TAGS: borane, boron compound, organoboron compound

ABSTRACT: A number of substituted phenyl and neophenyl boranes were synthesized to extend the work of L. I. Zakharkin, V. I. Stanko, and A. I. Klimova (Zh obshch. khimii 35, 39h, 1965) on the properties of boranes and neoboranes. The reaction yield, melting points, and UV spectra of ethanol solution of the synthesized compounds were determined. The experimental results are presented in graphs and tables (see Fig. 1).

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VDC: 542.91+661.718.4